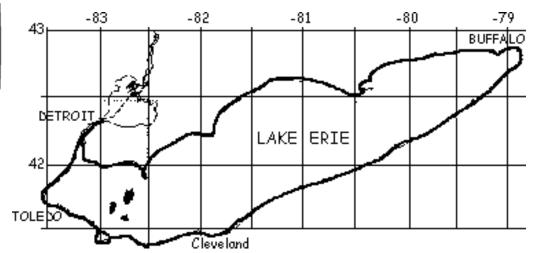


2. Draw the area of highest waves on the map of Lake Erie.



3. Why do you think these areas will have the highest waves?

4. Convert the highest wind speed from knots to miles per hour. (One knot is 1.15 miles per hour.)



- Click "Back" until you get back to the OAR Great Lakes Gather Data site.

B. Wave Height on Lake Erie





- Click on the "Wave Height" site.

1. Check your prediction in #1 above. Was your prediction correct?

2. How many feet high are the highest waves on Lake Erie? (one foot = 12 inches, one meter = 100 cm, one inch = 2.54 cm)



- Click "Back" until you get back to the OAR Great Lakes Gather Data site.

C. Water Elevation



- Click on the "Water Elevation" site.
- This map uses elevation like a topographic map. Elevation means height above sea level. Higher elevations are higher above sea level.

1. What part of Lake Erie has the highest water elevation?



2. What part of Lake Erie has the lowest water elevation?

3. What is the direction of water flow in Lake Erie?

from the _____ to the _____.

4. What is the total difference in water elevation from the northeast end of Lake Erie to the southwest end?

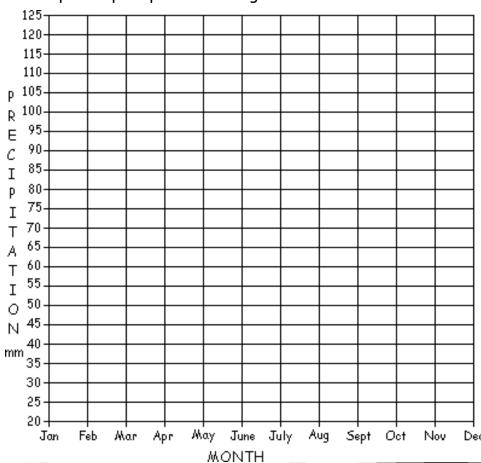
____meters

- Click "Back" until you get back to the OAR Great Lakes Gather Data site
- Click "Forward" at the bottom of the screen.

D. Graphing Overland Precipitation

- Click on the "Lake Erie Precipitation" site.



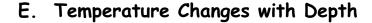








- Click "Back" until you get back to the OAR Great Lakes Gather Data site.





- Click on the "Lake Ontario Vertical Temperature" site.
- This map shows you the water temperature at various depths of Lake Ontario. The picture in the right lower corner shows the whole lake with lines drawn where the four cross sections are taken.
- 1. What is the coldest water temperature in Lake Ontario? ____°C
- 2. What is the range of depth at which the water is 8 degrees Celsius at cross section "C"?

meters to	meters



- Click "Back" until you get back to the OAR Great Lakes site.

F. Effects of Foreign Species on Local Animals

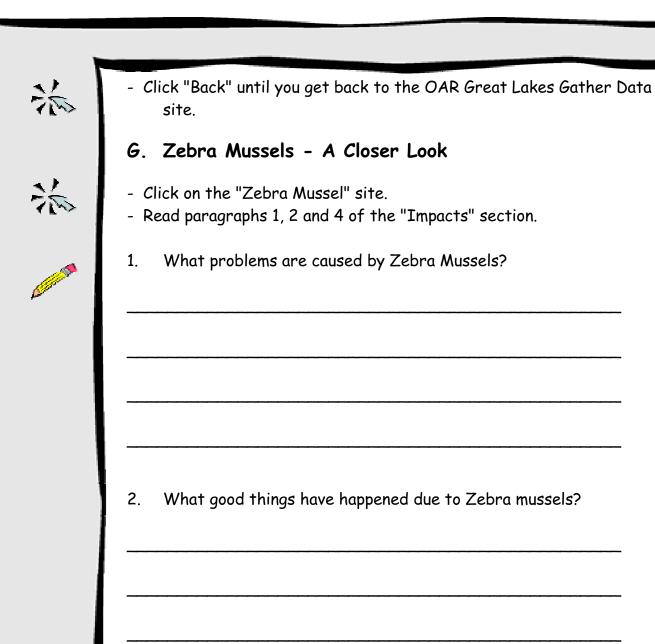


- Click on the "Health Indicator" site.
- Read the site and answer the following questions.
- 1. How is the "health" of Lake Michigan's water life populations measured?

2. Why does the lack of amphipods affect the fish population?



	What do amphipods eat?
4.	Why do you think the amphipods are disappearing?
- (Click on the " <u>amphipods</u> " hot text in the site.
	Scroll down to the blue and white maps of the <u>Diporeia</u> populat Lake Michigan.
5.	When you compare the maps from different years, what car infer (figure out) about amphipods' population?
6.	Why is it important to measure <u>seemingly</u> unimportant thing such as the number of invertebrates in the mud at the bott lakes?
 7.	How do scientists make maps like these?



- Read the "Methods of Control" section.
- 3. List the three methods of control you think are best. Write why you think these are the best methods.

<u>Method</u>	Why it is good
	<u>why it is good</u>
a	
b	
-	
C	
site. - Click on the "Zebra Mus Zebra mussels biofoulin This picture show how z - Click the "Next slide" be This picture shows how	et back to the OAR Great Lakes Gather Data ssels Biofouling" site to see examples of ag and living on other mussels. zebra mussels can block water pipes. utton. zebra mussels live on and kill native mussels. et back to the OAR Great Lakes main screen.

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